

SINGLE BALL BEARING LUBRICANT AND MATERIAL EVALUATOR

ABSTRACT OF THE DISCLOSURE

[00030] A test apparatus provides an applied load to a monoball through a trolley which moves along a loading axis. While applying the load to the monoball, the torque meter is in communication with the spherical monoball, and a load cell senses the application of applied force to the monoball. Meanwhile, a rotary actuator imports rotary oscillating motion to the monoball which is sensed by a position sensor and a torque meter. Accordingly, a processor can determine the coefficient of friction in substantially real time along with a cycles per second rate.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail in an envelope addressed to: Commissioner of Patents, P. O. Box 1450, Alexandria, VA 22310-1450, on the date of signature below.

Date 7-17-03

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